Question of the Week #2:

DO NOT PRINT THIS PAGE. Simply write your answer on a piece of paper and submit Monday before "O Canada".

In the movie "2001: A Space Odyssey", astronauts live on a large space station the shape of a double wheel (see picture). The wheel rotates to simulate Earth's gravitational field.

1. Give the specifications of a wheel-shaped space station such that it would have the same acceleration as on Earth. (Make the numbers your own - do not copy someone else's design).
2. What is the length of a "day" on your space station?
3. What would happen if an astronaut ventured up a "spoke" of the wheel toward the centre of the space station?



